FIG. 1

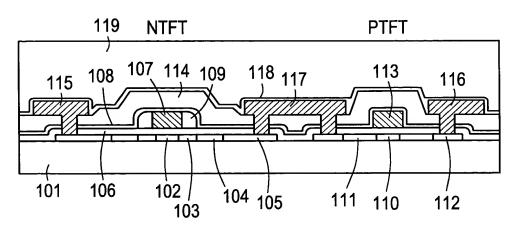


FIG. 2A PRIOR ART

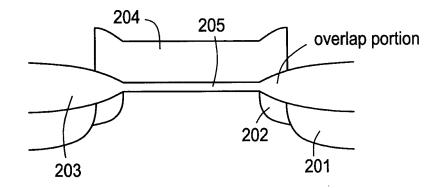
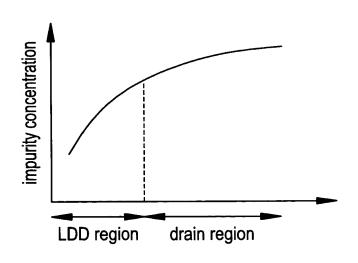
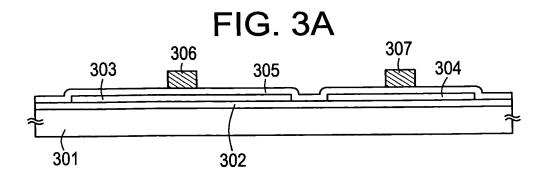


FIG. 2B PRIOR ART



163



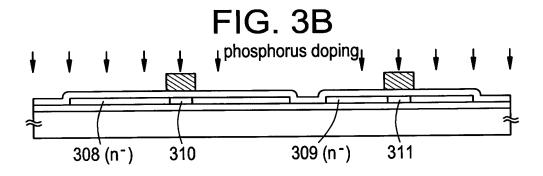
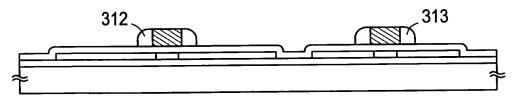
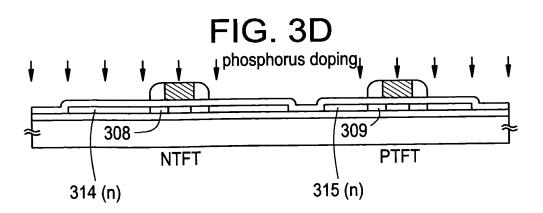


FIG. 3C





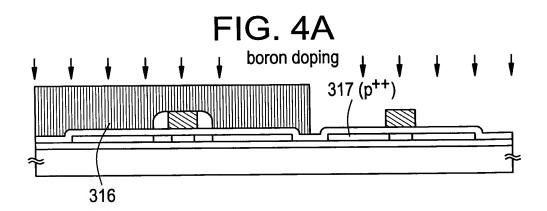


FIG. 4B

phosphorus doping

318

319

320 (n⁺) 314

321 (n⁺, p⁺⁺)

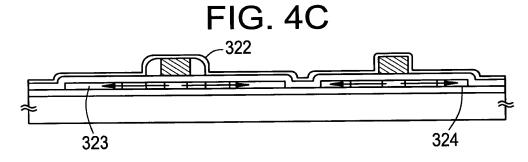


FIG. 4D

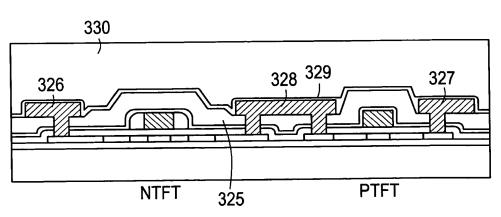


FIG. 5A

503

504

501

502

FIG. 5B

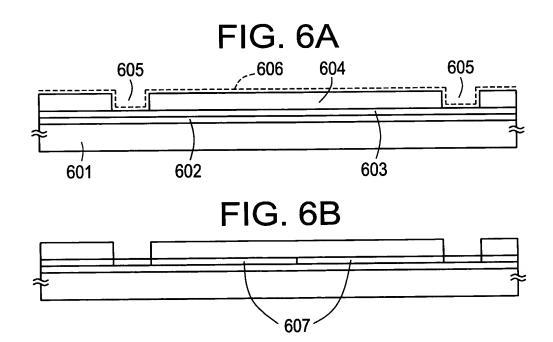


FIG. 7A

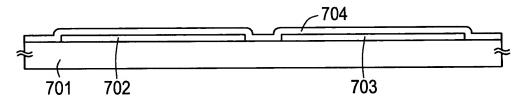


FIG. 7B



FIG. 8A

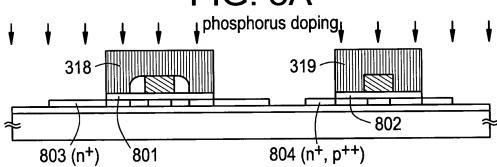


FIG. 8B

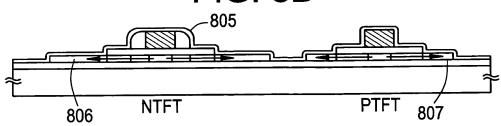


FIG. 9A

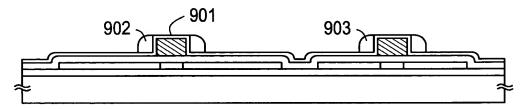


FIG. 9B

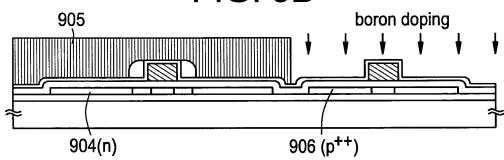


FIG. 9C

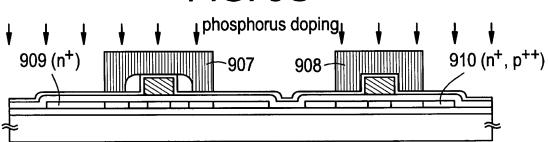
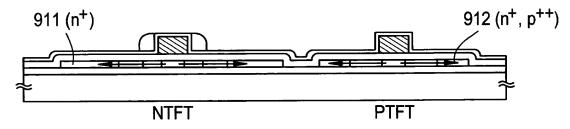
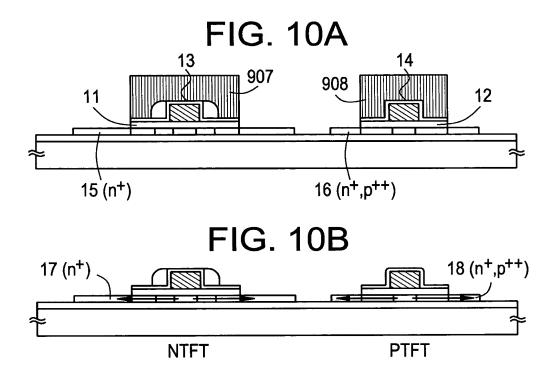


FIG. 9D





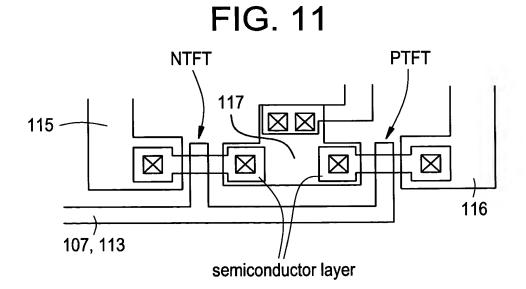


FIG. 12A

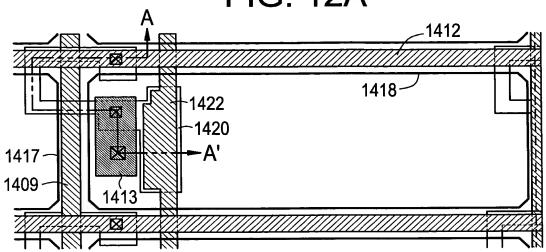


FIG. 12B

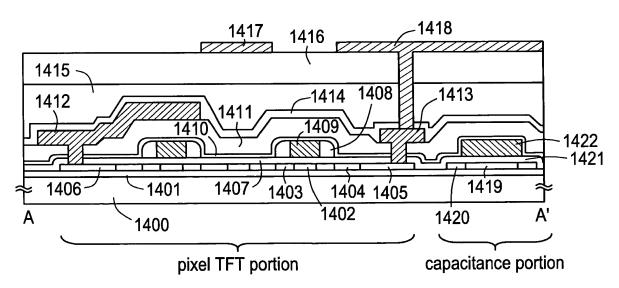


FIG. 12C

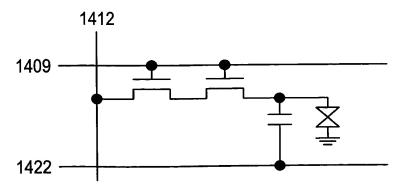


FIG. 13

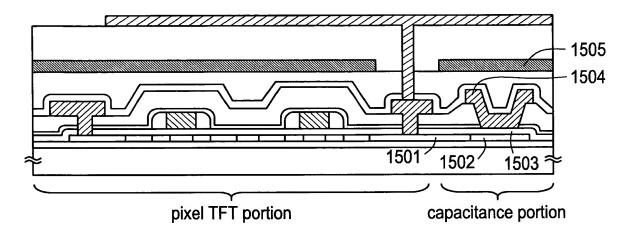


FIG. 14

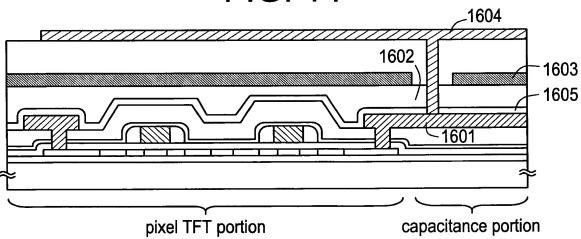


FIG. 15

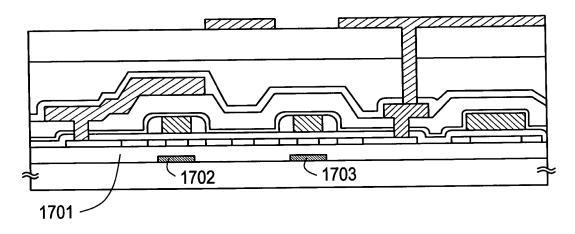
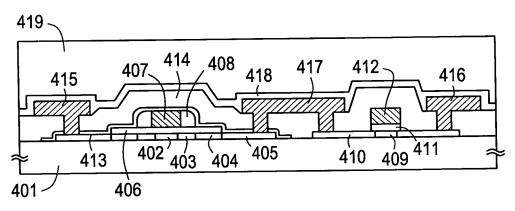


FIG. 16



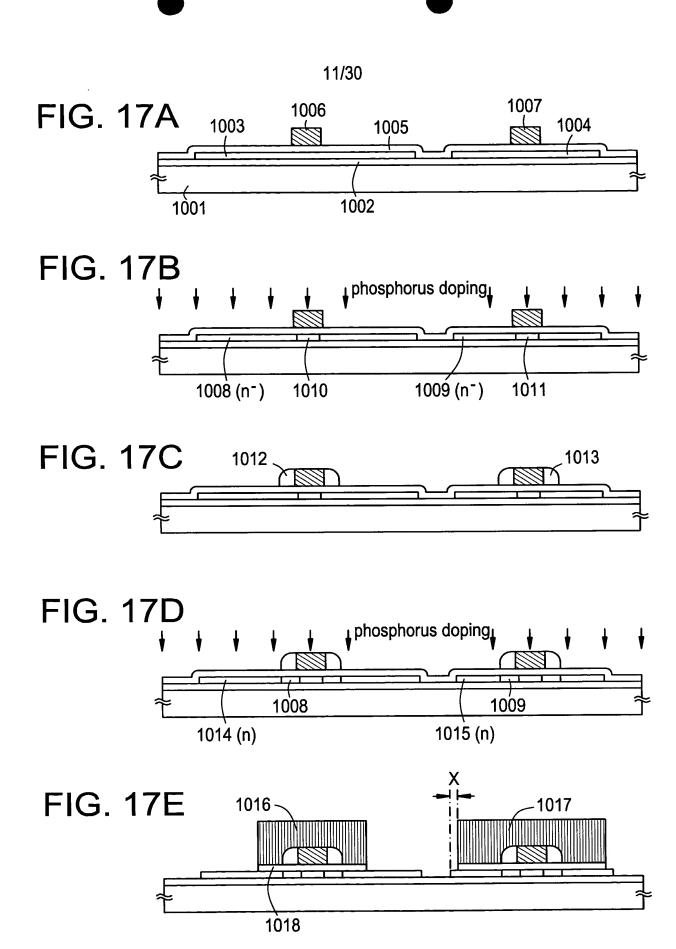


FIG. 18A

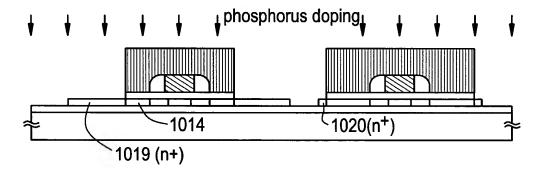


FIG. 18B

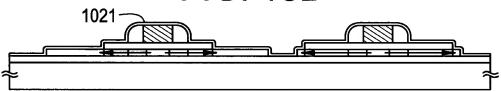


FIG. 18C

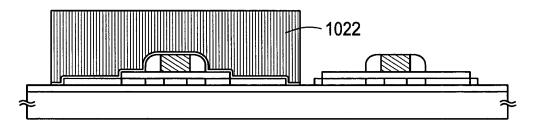


FIG. 18D

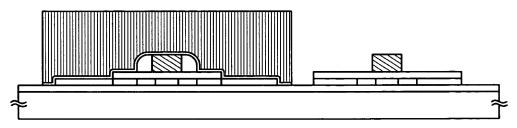


FIG. 19A

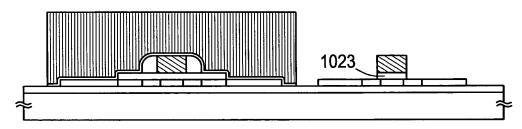


FIG. 19B

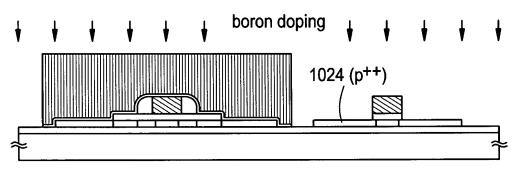


FIG. 19C

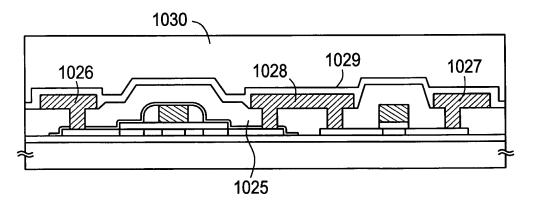


FIG. 20A

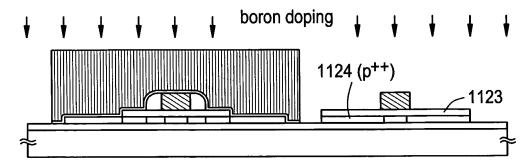
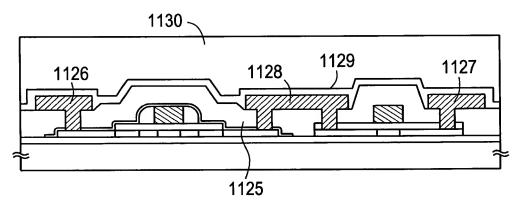
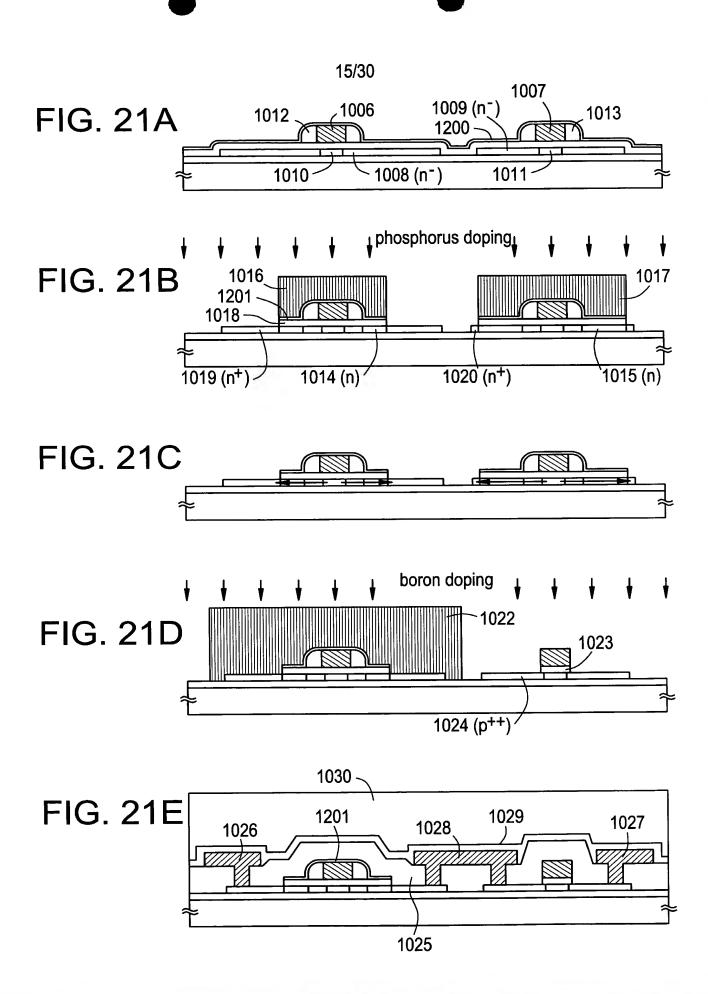
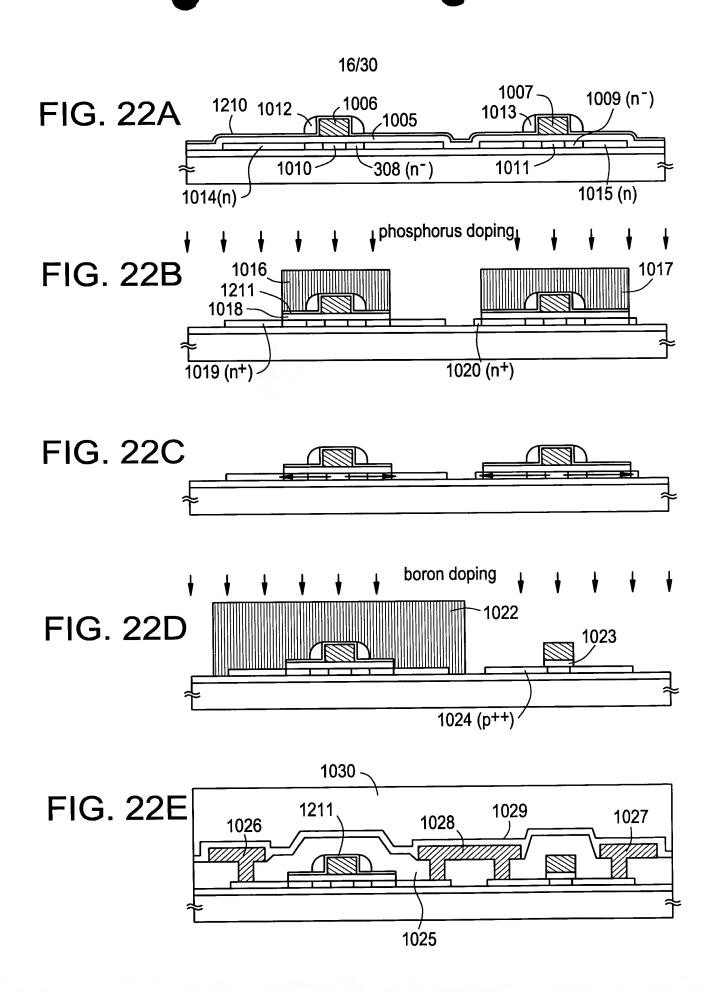
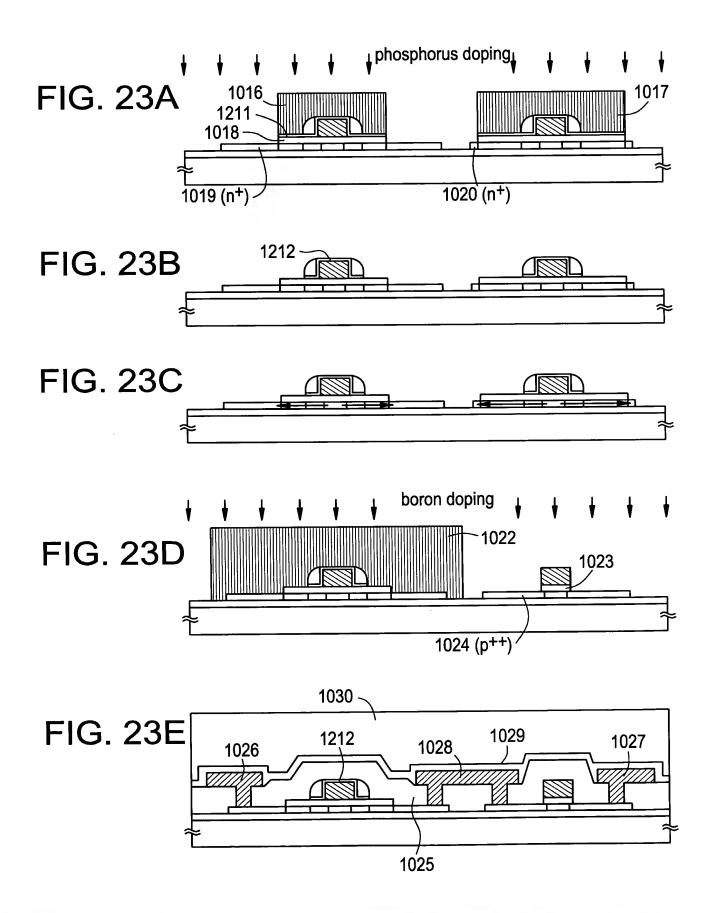


FIG. 20B

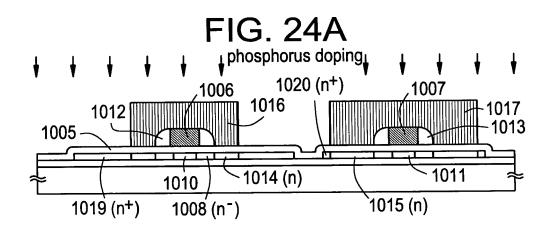








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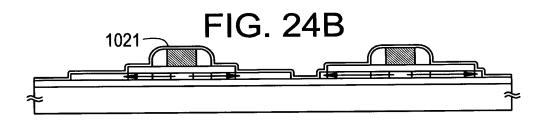


FIG. 25

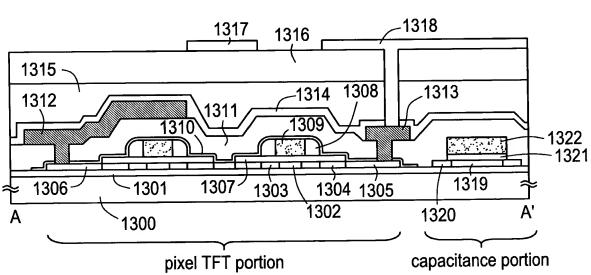


FIG. 26

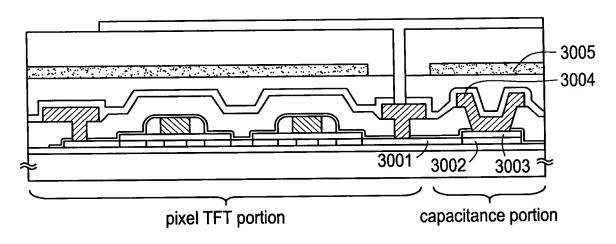


FIG. 27

3102

3103

pixel TFT portion

capacitance portion

FIG. 28

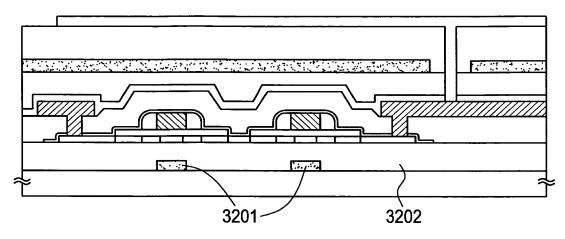
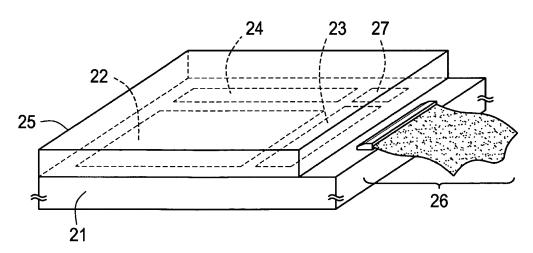


FIG. 29



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FIG. 30A

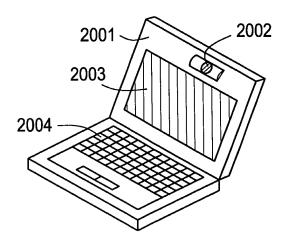


FIG. 30B

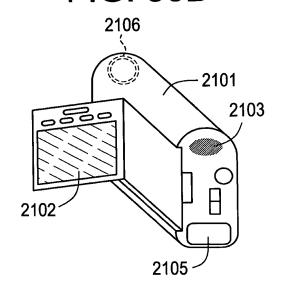


FIG. 30C

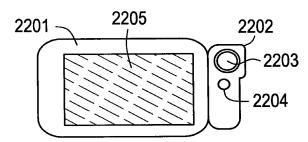


FIG. 30D

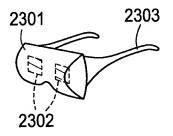


FIG. 30E

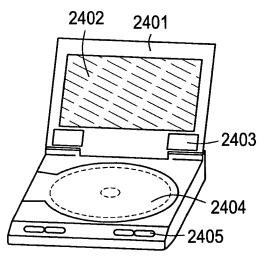
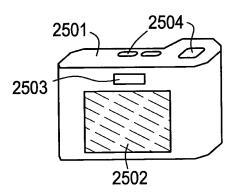


FIG. 30F



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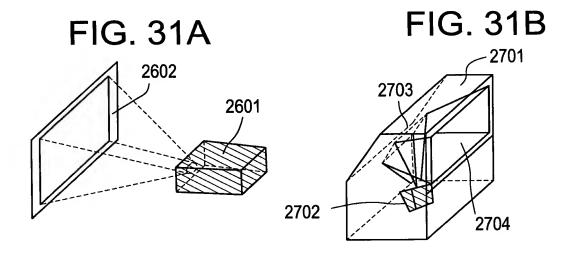


FIG. 31C

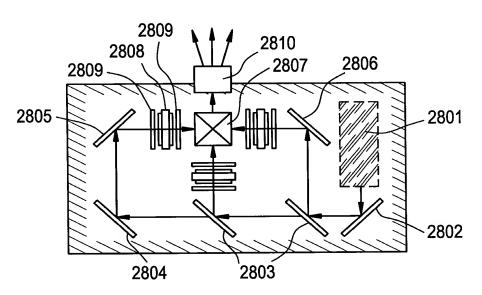


FIG. 31D

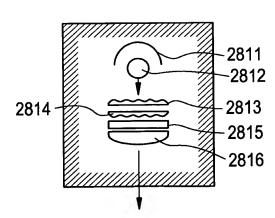


FIG. 32A

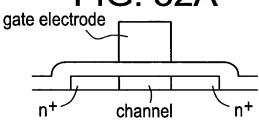


FIG. 32B

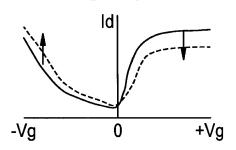


FIG. 32C

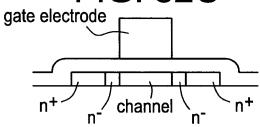


FIG. 32D

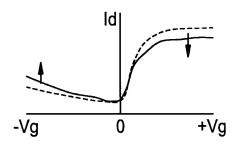


FIG. 32E

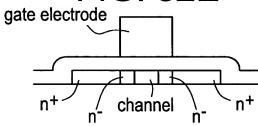


FIG. 32F

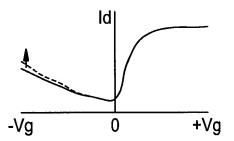


FIG. 32G

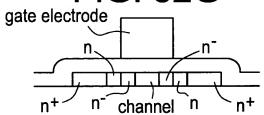
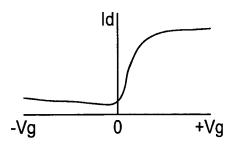


FIG. 32H



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FIG. 33A

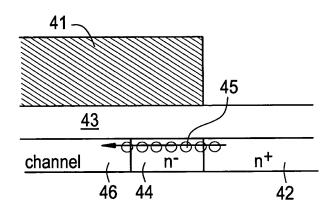
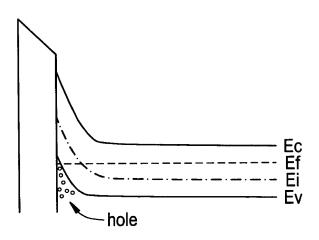


FIG. 33B



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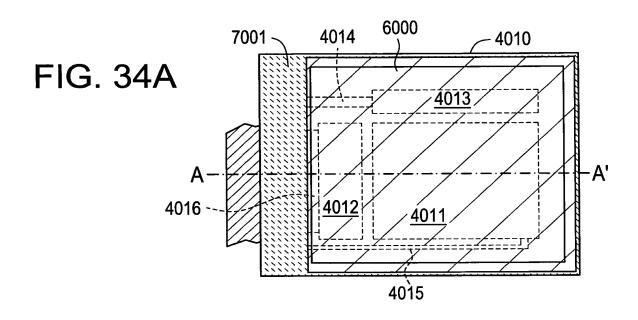
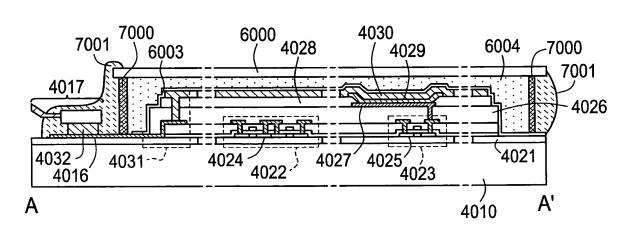


FIG. 34B



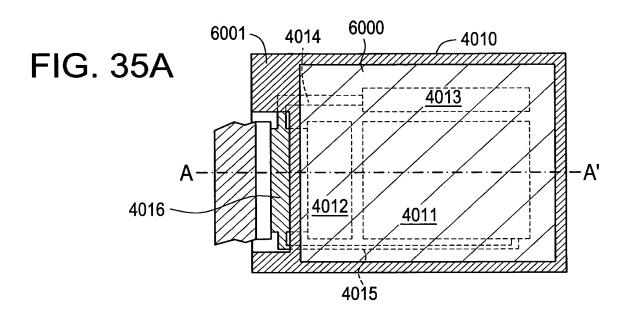
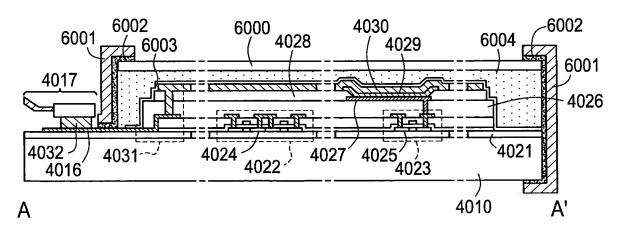


FIG. 35B



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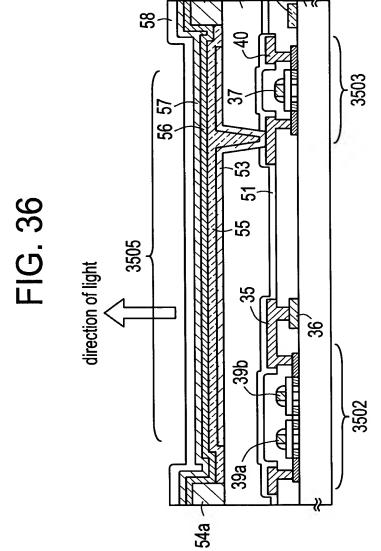
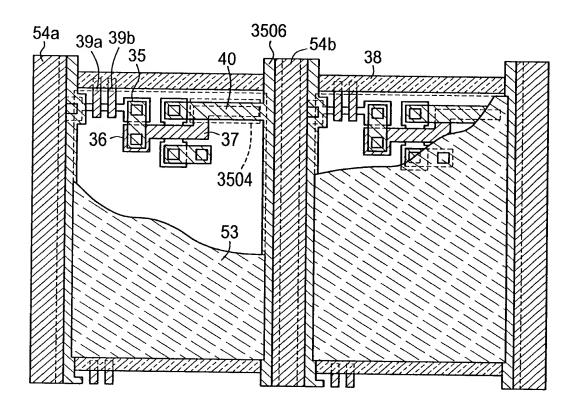
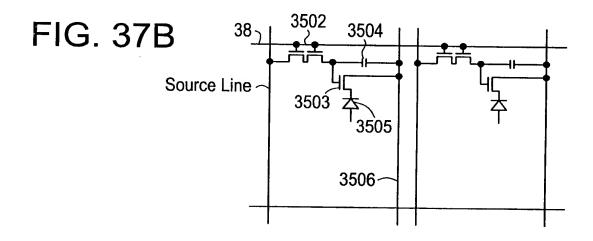
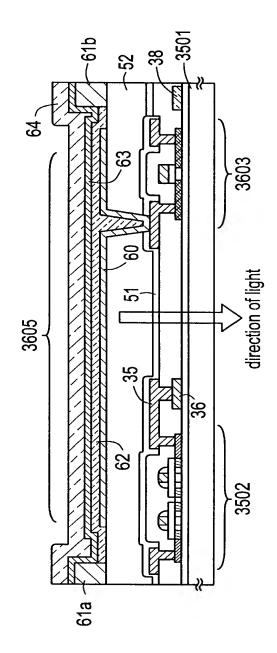


FIG. 37A









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FIG. 39A

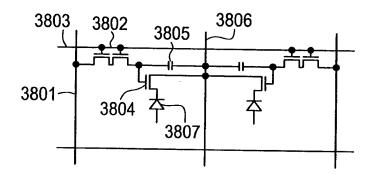


FIG. 39B

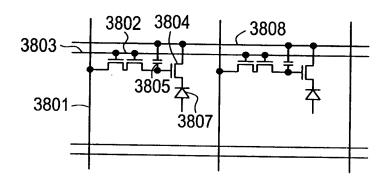


FIG. 39C

